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Steel

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ATTORNEY AT LAW,

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Topolovampo Bay.

ened at the long name which tions begin to hatch. heads this atticle, it is innocent enough, it represents a bay on the shade.

This bay is to Sonora and Chihuahua what the Bay of San Franclsco is to the Silver State of the Sierras.

Sonora and Chihuahua, the most salubrious of any of the states of Mexico, are wonderfully rich in precious metals. If the product of our western states could be transferred to those Mexican states, and exchange for the precious metals waiting such exchange, Mexico would not send, as new, \$30,000,000 in coin annually to England in exchange for the very things we raise or manufacture. England practically monopolizes a trade of many millions that properly belongs to the United States, I know of one company that purchased expensive machinery in Chicago and transported it with ox teams 700 miles from San Antonie to Parrall, Chihuahua. A railroad reaching out toward that rich mineral region would accelerate mining operations, make a great outlet for mining machinery, and open up to this great country another channel litherto unoccupied, and in the direct line of the grand old Monroe doctrine as to

this continent. splendor.

in the Bay of San Francisco into profitable investment; the general government taking the initial examination, will be a great them free of charge in their own effciency. source of power to any company arastras, or payeven so much as that may organize to undertake two or three dollars per ton for the work.

least who know something of the here being usually of good grade importance of this work, that the Mexicans may wake up some morning to find an American surveying party staking off a city on then they can get having their their beautiful bay, to be soon oecupied by the class of men that From some lots of ore reduced make commerce bloom, and send at this mill highly satisfactory the warm life-bleed of this Yan- returns were obtained, though He at once informed the military authori kee nation out in every new channel promising good returns; then furnaces and mills will go full as fast as the railroad pushes out into the mining belt, and general activity and peace where idleness and discord now reign. Let congress settle the border question with Mexico by pushing bands of steel out to the beautiful Bay of Topolavampo,-Ex,

Dry Amalgamstion. The plan of dispensing with the use of water in effecting the amalgamation of quicksilver with the precious metals, appears to be growing in favor with our millmen and pracitical metallurgists. Do our shrewd business-men mining public began to be strong- name, has well explained in his realize the asteunding fact that ly called to the advantages of pamphlet descriptive of the same scratched only on the surface, introduction of the Paul process by the dry method as well as the without any machinery except for crushing and amalgamating greater cheapness of the machintheir little arrastra and adobe fur- the ores of gold and silver wholly ery employed in its practice, nace, from the conquest up to dry, it has been gradualy working which latter he argues commends 1836, two and one half billions of its way into a large use. That strongly his plan where economy precious metals have been actu- this should have been the case is in preliminary expenditure be ally mined in that sparsely settled not surprising. When we con- comes a controlling consideration. country? Give to northern Mex- sider the percentage of loss that That mercury when performing ted States will speedily lead the has made so little progress, its be used without the intervention ciqilized world in wealth and superiority having been so clearly of water would be inferred irre-

satisfactory results. No enterprise man who has had a good deal of tals to unite being due to affinity Will attend to all business intrusted to can our government encourage experience in milling ores, we or attraction, that the interposiders, up which for hundreds mercury-coated cylinder which ing to the particles of metals, of feet laborers carry the ore in revolves in a dust proof chamber. which causes them to float. Presacks fastened to their shoulders. The instant the gold so brightened clous metals appear to possess If with such mining, billions of ken up even to the finest atom, others." money are produced, what would while the base metals and all be the result of an American other refuse matter are rejected in the above extract, Mr. Paul railroad pushing out, our Rocky and thrown into the stream below enlarges upon it in substance Mountain prospectors and our none of these latter during their as follows: Water adheres tenapossibilities that open before us ged with a hard piece of rubber mercury and gold and silver, in the wonderful future that lies is brought to bear against the whereby their metallic surfaces before this country, if it can se- cylinder white in motion, reliev- are kept from actual contact, and cure to itself the advantages that ing it effectually and so readily then proceed to agitate and grind wait on every hand intelligent of the amalgam that a delay of them with a view to destroying development. Congress has five minutes suffices for cleaning this covering and compelling power to speak the magic word, up the mill. With the aid of these them to unite. Now water is and send a thrill of tife into that appliances gold-bearing quartz repulsive to the precious metals

having them worked in the old-It is to be hoped, by those at style quartz mills. The ores they can well afford to pay this ores treated by any other process. they were so base that they could ties of his restiness to bring them back not be worked with any profit to the San Carlos reservation and made where amalgamation with water

was practiced. This experiment has created a demand for a 20-stamp custom mill at this nearly defunct camp, and so much new life has this improved prospect infused into the miners that there will probably be as much as forty or fifty additional stamps required there style mills indeed, we suppose it is somewhat less.

Almarin B. Paul, the origina-Ever since the attention of the tor of the process that bears his will produce such rapid and From Mark Silver, a young exists between these several me- trail. Silver Belt. that will bring such rapid returns. learn that one of the Paul crush-tion of a bad conductor like water A highway to the South Pacific ers, supplemented by a novel should tend to weaken that power wid give us, in exchange for our method of amalgamation, has tansds to reason. Overman, a machinery and products, coffee, been employed for the past six high authority in chemical and sugar, tropical fruits, precious months with gratifying results metallurgical science, remarks metals, and reach out into a coun- in the mill of Chas. D. Smyth, on this point as follows: "All try where at one time in its his- at Murphy's Camp, Calaveras metals appear to have a tendency tory iron was nearly as expensive county. The ore here, after being to float in water, when in fine as silver,-where to-day many pulverized and brightened in the particles, some more than others. the way of development has yet been of the plows are wood, and mines manner peculiar to the Paul ma. This is caused by a particle of gas are worked by rude wooden lad- chine, is dusted on a copper-plated -either air or water gas-adheror strapped across the forehead, touches the quicksilver it is ta- more of this quality than the prospects, and feel sure that on the

Taking up the hint contained ter national commerce, and hence arastras; and so manifest are the friction produced between from day?

national union. It is when a advantages of the mechanisms surfaces tends to eliminate the MR. EDTOR,-Do not be fright- nation begins to rust that revoluthere employed that a great revi- repulsive elements that reside val in quartz mining is likely to in all ores, and being so brought The route from Austin, Texas, effsue in the district mentloned, out coat with a gaseous film the to Topolovampo Bay is not a diffi- The miners in the neighborhood precious metals they contain, the pacific, which, when the iron cult one; a survey will demon- are bringing in their ores freely and so place a barrier between horse reaches it via Austin, Texas strate not only its feasibility, but to Mr. Smyth's mill to have them them and the mercury. In dry will throw the splendid harbor in demonstrate that it must be a reduced by the new method, amalgamation the mercury comes peferring to pay from six to in direct contact with the partieseven dollars per ton to have les of metal, and of course perstep to foster and encourage the them so treated rather than crush forms its duty with greater

The Scalper's.

In as much as several of the New Mex. ican papers since the recent raid at Clif. Groceries, ton have persistently averred that the renegades were San Carlos Indians we will make a statement] showing how far difference, as Mr. Smyth returns those scalpers were identified with the them fully 30 per cent. more gold | agency, hoping that after reading our veritication of "the truth of history," they will be induced to give Agent Hart a rest In September or October, 1878, Agent

Hart was notified that the Warm Spring

Apaches had surrendered to the military

his preparations accordingly. In Novem-

ber, to his surprise, he was informed that 172 of the tribe were at Camp Apache and was requested to send for them. It was then ascertained that only 22 of the number were bucks, the balance of the men that originally started for San Carlos having abandoned their nillitary escort en route and remaining on the war path for some length of time, but finding their occupation unprofitable they again surrendered to the military at Fort Stanton, N. within the next six months. The M. In some time last May, Agent Hart cost of out-fitting and running received a disputch stating that some of this is not greater than of the old- the band had again escaped front the troops and were supposed to be moving towards Sen Carles with the Intention of running off their wives and families. Two nights after reveipt of the dispatch, asteen of the band came on the reservation near the branch agency, but were unsue essful in their attempt at regaining possession of their families on account of from official sources in Mexico, this method through the partial the advantages of amalgamation their having been moved close to the main agency and put under strict surveillance. Some of the Chiricahua Indi.' ans of their own accord gave the infor mation to the troops at Camp Thomas and they were sent out after them, but accomplished nothing. These Indians will un doubtedly make another attempt at regaining their women, and there will be no peace nor safety on the road between ico a railroad and our improved attends humid amalgamation, this office of gathering up and San Carlos and Ojo Caliente, a distance of methods of mining, and the Uni- it seems strange that the dry plan holding the precious metals should about three hundred miles, until the military either kill or capture them or invite the co-operation of the San Carlos Indian scouts whom we think would soon bring proven through the many success- spective of results reached in them to grief provided they were well No improvement in this land ful trials of the Paul invention. practice. The disposition that provisioned and instructed to freeze to the

New Mining District.

Evergreen is the name of a new mining district about twenty miles northwest of Tueson and but four or five miles south of the line of the railway. It embraces the low mountains about Point of Mountain and the westward. There is no limit to the ore in the district, and its nearness to the railway must make it valuable, even if not of high grade. Not much in Braces, done, but some work has been going on for a couple of months past with an encouraging showing. Judge J. Neugass John W. Davis and some others have been expending money and labor out there, and they are quite content with completion of the rallway no trouble will be found in getting men of means to aid in operating the mines.-Citizen.

The San Diego Union attempts to thrust a pin through the Gusymas railroad bubimproved machinery followed brief contact being able to attach clously to whatever it touches, ble. It says: "The long and short of all up in quick succession by our themselves to the surface of the Through its use in amalgamating this is that certain Jeremy Diddler's bave business enterprise and capital? revolving cylinder. For the pur- we put in the first place a jacket a Mexican land properly to sell in the It is marvelous to investigate the pose of cleaning up, a lathe rig- of water about every atom of Eastern market and are bailing for gudgeons. Guaymas is an insignificant tittle landing for light-draft steamers, near the head of the Gulf of California. As to the "land grants" talked of, they are not worth 5 cents an acre."-Semi-Tropic.

Poor San Diego is still suffering from its very severe attack of tomscottitis, in fact it has become | SAN FRANCISCO, CALIFOR dead country, and do much to has been worked in large quanti- and no union can take place be- the grants of water front, etc., chronic. How much per acre are solve the vexed problem of labor ties with much greater closeness tween them except forced by etc., deeded unconditionally to for the idle masses; much to fos- than it is posible to do with gravity or friction. But this Tom Scott individually worth to-

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